

04/20



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/045,170A

DATE: 04/02/2002

TIME: 13:47:22

Input Set : A:\EP.txt

Output Set: N:\CRF3\04022002\J045170A.raw

3 <110> APPLICANT: Qiu, Yongchang  
 4 Wang, Jack  
 5 Hewick, Rodney  
 7 <120> TITLE OF INVENTION: ACID-LABILE ISOTOPE-CODED EXTRACTANT (ALICE) AND ITS USE IN  
 QUANTITATIVE  
 8 MASS SPECTROMETRIC ANALYSIS OF PROTEIN MIXTURES  
 10 <130> FILE REFERENCE: GI5412AUSA  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/045,170A  
 C--> 12 <141> CURRENT FILING DATE: 2001-10-22  
 12 <150> PRIOR APPLICATION NUMBER: 60/242643  
 13 <151> PRIOR FILING DATE: 2000-10-23  
 15 <160> NUMBER OF SEQ ID NOS: 16  
 17 <170> SOFTWARE: PatentIn version 3.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 604  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Bovine Serum Albumin  
 24 <400> SEQUENCE: 1  
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 27 1 5 10 15  
 30 Thr Tyr Ser Arg Gly Val Phe Arg Arg Asp Thr His Lys Ser Glu Ile  
 31 20 25 30  
 34 Ala His Arg Phe Lys Asp Leu Gly Glu Glu His Phe Lys Gly Leu Val  
 35 35 40 45  
 38 Leu Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His  
 39 50 55 60  
 42 Val Lys Leu Val Asn Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala  
 43 65 70 75 80  
 46 Asp Glu Ser His Ala Gly Cys Glu Lys Ser Leu His Thr Leu Phe Gly  
 47 85 90 95  
 50 Asp Glu Leu Cys Lys Val Ala Ser Leu Arg Glu Thr Tyr Gly Asp Met  
 51 100 105 110  
 54 Ala Asp Cys Cys Glu Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu  
 55 115 120 125  
 58 Ser His Lys Asp Asp Ser Pro Asp Leu Pro Lys Leu Lys Pro Asp Pro  
 59 130 135 140  
 62 Asn Thr Leu Cys Asp Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly  
 63 145 150 155 160  
 66 Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro  
 67 165 170 175  
 70 Glu Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys  
 71 180 185 190  
 74 Cys Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Glu Thr  
 75 195 200 205

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78 Met Arg Glu Lys Val Leu Thr Ser Ser Ala Arg Gln Arg Leu Arg Cys
79      210                      215                      220
82 Ala Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val
83 225                      230                      235                      240
86 Ala Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Val Glu Val Thr
87      245                      250                      255
90 Lys Leu Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly
91      260                      265                      270
94 Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile
95      275                      280                      285
98 Cys Lys Asn Gln Asp Thr Ile Ser Ser Lys Leu Lys Glu Cys Cys Asp
99      290                      295                      300
102 Lys Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Lys Asp
103 305                      310                      315                      320
106 Ala Ile Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp
107      325                      330                      335
110 Lys Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser
111      340                      345                      350
114 Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val
115      355                      360                      365
118 Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Glu Cys Cys
119      370                      375                      380
122 Ala Lys Asp Asp Pro His Ala Cys Tyr Ser Thr Val Phe Asp Lys Leu
123 385                      390                      395                      400
126 Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Asp Gln Asn Cys Asp
127      405                      410                      415
130 Gln Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val
131      420                      425                      430
134 Arg Tyr Thr Arg Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu
135      435                      440                      445
138 Val Ser Arg Ser Leu Gly Lys Val Gly Thr Arg Cys Cys Thr Gly Pro
139      450                      455                      460
142 Glu Ser Glu Arg Met Pro Cys Thr Glu Asp Tyr Leu Ser Ile Leu Asn
143 465                      470                      475                      480
146 Arg Leu Cys Val His Glu Lys Thr Pro Val Ser Glu Lys Val Thr Lys
147      485                      490                      495
150 Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu
151      500                      505                      510
154 Thr Asp Glu Thr Tyr Val Pro Lys Ala Phe Asp Glu Lys Leu Phe Thr
155      515                      520                      525
158 Phe His Ala Asp Ile Cys Thr Leu Pro Asp Thr Glu Lys Gln Ile Lys
159      530                      535                      540
162 Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro Lys Ala Thr
163 545                      550                      555                      560
166 Glu Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala Phe Val Asp
167      565                      570                      575
170 Lys Cys Cys Ala Ala Asp Asp Lys Glu Ala Cys Phe Ala Val Glu Gly
171      580                      585                      590
174 Pro Lys Leu Val Val Ser Thr Gln Thr Ala Leu Ala

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178 <210> SEQ ID NO: 2
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180 <212> TYPE: PRT
181 <213> ORGANISM: Peptide from Lysozyme
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189 Ala Ser Val Asn Cys Ala Lys
190          20
193 <210> SEQ ID NO: 3
194 <211> LENGTH: 7
195 <212> TYPE: PRT
196 <213> ORGANISM: Peptide from alpha-lactoalbumin
198 <400> SEQUENCE: 3
200 Lys Cys Glu Val Phe Arg Glu
201 1          5
204 <210> SEQ ID NO: 4
205 <211> LENGTH: 25
206 <212> TYPE: PRT
207 <213> ORGANISM: Peptide from beta-lactoglobulin
209 <400> SEQUENCE: 4
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212 1          5          10          15
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216          20          25
219 <210> SEQ ID NO: 5
220 <211> LENGTH: 15
221 <212> TYPE: PRT
222 <213> ORGANISM: Peptide from beta-lactoglobulin
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226 Arg Leu Ser Phe Asn Pro Thr Gln Leu Glu Glu Gln Cys His Ile
227 1          5          10          15
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231 <211> LENGTH: 12
232 <212> TYPE: PRT
233 <213> ORGANISM: Peptide from Catalase
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237 Arg Leu Cys Glu Asn Ile Ala Gly His Leu Lys Asp
238 1          5          10
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242 <211> LENGTH: 17
243 <212> TYPE: PRT
244 <213> ORGANISM: Protein from catalase
246 <400> SEQUENCE: 7
248 Arg Leu Gly Pro Asn Tyr Leu Gln Ile Pro Val Asn Cys Pro Tyr Arg
249 1          5          10          15
252 Ala
256 <210> SEQ ID NO: 8

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257 <211> LENGTH: 10
258 <212> TYPE: PRT
259 <213> ORGANISM: Protein from lysozyme
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264 1 5 10
267 <210> SEQ ID NO: 9
268 <211> LENGTH: 12
269 <212> TYPE: PRT
270 <213> ORGANISM: Protein from ovalbumin
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275 1 5 10
278 <210> SEQ ID NO: 10
279 <211> LENGTH: 12
280 <212> TYPE: PRT
281 <213> ORGANISM: Peptide from ovalbumin
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285 Arg Ala Asp His Pro Phe Leu Phe Cys Ile Lys His
286 1 5 10
289 <210> SEQ ID NO: 11
290 <211> LENGTH: 14
291 <212> TYPE: PRT
292 <213> ORGANISM: Peptide from ovalbumin
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296 Arg Tyr Pro Ile Leu Pro Glu Tyr Leu Gln Cys Val Lys Glu
297 1 5 10
300 <210> SEQ ID NO: 12
301 <211> LENGTH: 21
302 <212> TYPE: PRT
303 <213> ORGANISM: Peptide from ribonuclease
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311 Phe Asp Ala Ser Val
312 20
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316 <211> LENGTH: 24
317 <212> TYPE: PRT
318 <213> ORGANISM: Peptide from ribonuclease
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323 1 5 10 15
326 Gln Ala Val Cys Ser Gln Lys Asn
327 20
330 <210> SEQ ID NO: 14
331 <211> LENGTH: 11
332 <212> TYPE: PRT
333 <213> ORGANISM: Ppetide from ribonuclease

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341 <210> SEQ ID NO: 15  
342 <211> LENGTH: 15  
343 <212> TYPE: PRT  
344 <213> ORGANISM: Peptide from trypsinogen  
346 <400> SEQUENCE: 15  
348 Lys Cys Leu Lys Ala Pro Ile Leu Ser Asp Ser Ser Cys Lys Ser  
349 1 5 10 15  
352 <210> SEQ ID NO: 16  
353 <211> LENGTH: 18  
354 <212> TYPE: PRT  
355 <213> ORGANISM: Peptide from trypsinogen  
357 <400> SEQUENCE: 16  
359 Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Ser Gly  
360 1 5 10 15  
363 Lys Leu

VERIFICATION SUMMARY

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Output Set: N:\CRF3\04022002\J045170A.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date